



1151 CAGGCCGGAG CGGAGCAGCT GAAGGCACTC GCTGGTCA GTGGTTCGGA  
1201 GATGGCAAGT TCTCACTGGT GTGTGTGGAG AAGCTCATGC CGCTGAGCTC  
1251 CTTCTGCAGT GCATTCCACC AGGCCACCTA CAACAAGCAG CCCATGTACC  
1301 GCAAAGCCAT CTACGAAGTC CTCCAGGTGG CCAGCAGCCG TGCCGGGAAG  
1351 CTGTTCCAG CTTGCCATGA CAGTGATGAA AGTGACAGTG GCAAGGCTGT  
1401 GGAAGTGCAG ACAAAGCAGA TGATTGAATG GGCCCTCGGT GGCTTCCAGC  
1451 CCTCGGGTCC TAAGGGCCTG GAGCCACCAAG AAGAAGAGAA GAATCCTTAC  
1501 AAGGAAGTTT ACACCGACAT GTGGTGGAG CCTGAAGCAG CTGCTTACGC  
1551 CCCACCCCCA CCAGCCAAGA AACCCAGAAA GAGCACAAACA GAGAAACCTA  
1601 AGGTCAAGGA GATCATTGAT GAGGCCACAA GGGAGCGGCT GGTGTATGAG  
1651 GTGCCGCCAGA AGTGCAGAAA CATCGAGGAC ATTTGTATCT CATGTGGAG  
1701 CCTCAATGTC ACCCTGGAGC ACCCACTCTT CATTGGAGCC ATGTGCCAGA  
1751 ACTGTAAGAA CTGCTTCTTG GAGTGTGCTT ACCAGTATGA CGACCGATGGG  
1801 TACCAAGTCCT ATTGCCACCAT CTGCTGTGGG GGGCGTGAAG TGCTCATGTG  
1851 TCGGAACAAAC AACTGCTGCA CGTGCTTTG TGTGAGTGT GTGGATCTCT  
1901 TGGTGGGGCC AGGAGCTGCT CAGGCAGCCA TTAAGGAAGA CCCCTGGAAC  
1951 TGCTACATGT GCGGGCATAA GGGCACCTAT GGGCTGCTGC GAAGACGGGA  
2001 AGACTGGCCT TCTCGACTCC AGATGTTCTT TGCCAATAAC CATGACCAGG  
2051 AATTGACCC CCCAAAGGTT TACCCACCTG TGCCAGCTGA GAAGAGGAAG  
2101 CCCATCCCGG TGCTGTCTCT CTTGATGGG ATTGCTACAG GGCTCCTGGT  
2151 GCTGAAGGAC CTGGGCATCC AACTGGACCG CTACATTGCC TCCGAGGTGT  
2201 GTGAGGACTC CATCACGGTG GGCAATGGTCC GGCAACCAGGG AAAGATCATG  
2251 TACGTGGGG ACAGTCCGGCAG CGTCACACAG AAGCATAATCC AGGAGTGGGG  
2301 CCCATT<sub>2</sub>GAC<sub>2</sub> TGGTGATTG GAGCCAGTCC CTGCAATGAC CT<sub>2</sub>TCCATTG C

FIG. 1A-2



2351 TCAACCCTGC CGCGAAGGGA CTTTATGAGG GTACTGGCCG CCTCTTCTTT  
2401 GAGTTCTACC GCCTCCTG<sup>C</sup> TGATGCCGGG CCCAAGGAGG GAGATGATCG  
2451 CCCCTTCTTC TGGCTCTTG AGAATGTGGT GGCCATGGCC GTTAGTGACA  
2501 AGAGGGACAT CTGGCGATT CTTGAGTCTA ACCCCGTGAT GATTGACGCC  
2551 AAAGAAGTGT CTGCTGCACA CAGGGCCCGT TACTTCTGGG GTAACCTTCC  
2601 TGGCATGAAC AGGCCTTGG CATCCACTGT GAATGATAAG CTGGAGCTGC  
2651 AAGAGTGTCT GGAGCACGGC AGAATAGCCA AGTCAGCAA AGTGAGGACC  
2701 ATTACCACCA GGTCAAACTC TATAAAGCAG GGCAAAGACC AGCATTCCC  
2751 CGTCTTCATG AACGAGAAGG AGGACATCCT GTGGTGCCT GAAATGGAAA  
2801 GGGTGTGGG CTTCCCCGTC CACTACACAG ACCTCTCCAA CATGAGCCGC  
2851 TTGGCGAGGC AGAGACTGCT GGGCCGATCG TGGACCGTGC CGTCATCCG  
2901 CCACCTCTTC GCTCCGCTGA AGGAATATT TGCTTGTGTG TAAGGGACAT  
2951 GGGGGCAAAC TGAAGTAGTG ATGATAAAAA AGTTAAACAA ACAAACAAAC  
3001 AAAAAACAAA ACAAAACAAT AAAACACCAA CAACGAGAGG ACGGAGAAAA  
3051 GTTCAGCACC CAGAACAGAA AAAGGAATT AAAGCAAACC ACAGAGGAGG  
3101 AAAACGCCGG AGGGCTTGGC CTTGCAAAAG GTTGGACAT CATCTCCTGA  
3151 GTTTCAATG TTAACCTTCA GTCCTATCTA AAAACAAAA TAGGCCCTC  
3201 CCCTTCTTCC CCTCCGGTCC TAGGAGGCGA ACTTTTGTG TTCTACTCTT  
3251 TTTCAGAGGG GTTTCTGTG TTGTTGGTT TTGTTTCTT GCTGTGACTG  
3301 AAACAAGAGA GTTATTCCAG CAAATCACT AACAAACAAA AGTAGAAATC  
3351 CCTTGGAGAG GAAAGGGAGA GAGGGAAAT TCTATAAAA CTTAAAATAT  
3401 TGGTTTTTTT TTTTTTCTT TTCTATATA TCTCTTGGT TGTCTCTAGC  
3451 CTGATCAGAT AGGAGCACAA ACAGGAAGAG AATAGAGACC CTCGGAGGCC  
3501 GAGTCTCCTC TCCCACCCCC CGAGCAGTCT CAACAGCACC ATTCTGGTC

FIG. 1A-3



Mouse Dnmt3b1 DNA Sequence

1 GAATTCCGGG CGCCGGGGTT AAGCGGCCA AGTAAACGTA GCGCAGCCAT  
51 CGGCCGCCGA GATTCCGAA CCCGACACTC CGCGCCGCC GCGGGCCAGG  
101 ACCCGCGGCC CGATCGCGC GCCGCGCTAC ACCCAGCCTC ACGACAGGCC  
151 CGCTGAGGCT TGTGCCAGAC CTTGGAAACC TCAGGTATAT ACCTTTCCAG  
201 ACCCGGGATC TCCCCTCCCC CATCCATAGT GCCTTGGAC CAAATCCAGG  
251 GCCTTCTTC AGGAAACAAT GAAGGGAGAC ACCAGACATC TGAATGAAGA  
301 AGAGGGTGCC AGCGGGTATG AGGAGTGCAT TATCGTTAAT GGGAACTTCA  
351 GTGACCAGTC CTCAGACACG AAGGATGCTC CCTCACCCCC AGTCTTGGAG  
401 GCAATCTGCA CAGAGCCAGT CTGCACACCA GAGACCAGAG GCGGCAGGTC  
451 AAGCTCCGG CTGTCTAAGA GAGGAGTCTC CAGCTTCTG AATTACACGC  
501 AGGACATGAC AGGAGATGGA GACAGAGATG ATGAAGTACA TGATGGAAAT  
551 GGCTCTGATA TTCTAATGCC AAAGCTCACC CGTGAGACCA AGGACACCAG  
601 GACGCCCTCT GAAAGCCGG CTGTCCGAAC CCGACATAAC AATGGGACCT  
651 CCAGCTTGGA GAGGCAAAGA GCCTCCCCCA AATCACCCCC AGTCGGCAG  
701 GGCGGCCACC ATGTCCAGGA GTACCCCTGTG GACTTCCGG CTACCAGGTC  
751 TCGGAGACGT CGAGCATCGT CTTCAAGG CACGCCATGG TCATCCCTG  
801 CCAGCGCTGA CTTCATGAA GAAGTGACAC CTAAGAGCGT CAGTACCCCA  
851 TCAGTTGACT TGAGCCAGGA TGGAGATCAG GAGGGTATGG ATACCACACA  
901 GGTGGATGCA GAGAGCAGAG ATGGAAACAG CACAGAGTAT CAGGATGATA  
951 AAGAGTTGG AATAGGTGAC CTCGTGTGGG GAAAGATCAA GGGCTTCTCC  
1001 TGGTGGCCTG CCATGGTGGT GTCTGGAAA GCCACCTCCA ACGACAGGC

FIG. 1B-1



1051 CATGCCCGGA ATGCCGTGGG TACAGTGTT TGGTGATGGC AAGTTTCTG  
1101 AGATCTCTGC TGACAAACTG GTGGCTCTGG GGCTGTTCAAG CCAGCACTT  
1151 AATCTGGCTA CCTTCAATAA GCTGGTTCT TATAGGAAGG CCATGTACCA  
1201 CACTCTGGAC AAAGCCAGGG TTGAGCTGG CAAGACCTTC TCCAGCAGTC  
1251 CTGGAGAGTC ACTGGAGGAC CAGCTGAAGC CCATGCTGGA GTGGGCCAC  
1301 GGTGGCTTCA AGCCTACTGG GATCGAGGGC CTCAAACCCA ACAAGAAGCA  
1351 ACCAGTGTT AATAAGTCGA AGGTGGTGC TTCAGACAGT AGGAACCTAG  
1401 AACCCAGGAG ACCGGAGAAC AAAAGTCGA GACCCACAAC CAATGACTCT  
1451 GCTGCTTCTG AGTCCCCCCC ACCCAAGGGC CTCAAGACAA ATAGCTATGG  
1501 CGGGAAAGGAC CGAGGGGAGG ATGAGGAGAG CCGAGAACCG ATGGCTTCTG  
1551 AAGTCACCAA CAACAAGGGC AATCTGGAAG ACCGCTGTTT GTCCGTGGA  
1601 AAGAAGAACCC CTGTGTCCTT CCACCCCTC TTTGAGGGTG GGCTCTGTCA  
1651 GAGTTGCCGG GATCGCTTCC TAGAGCTCTT CTACATGTAT GATGAGGACG  
1701 GCTATCAGTC CTACTGCACC GTGTGCTGTG AGGGCCGTGA ACTGCTGCTG  
1751 TGCAGTAACA CAAGCTGCTG CAGATGCTTC TGTGTGGAGT GTCTGGAGGT  
1801 GCTGGTGGC GCAGGGCACAG CTGAGGATGC CAAGCTGCAG GAACCCCTGGA  
1851 GCTGCTATAT GTGCCCTCCCT CAGCGCTGCC ATGGGGTCTT CCGACGCAGG  
1901 AAAGATTGGA ACATGCGCCT GCAAGACTTC TTCACTACTG ATCCTGACCT  
1951 GGAAGAATTG GAGCCACCCA AGTTGTACCC AGCAATTCTT GCAGCCAAAA  
2001 GGAGGCCCAT TAGAGTCCTG TCTCTGTTG ATGGAATTGC AACGGGGTAC  
2051 TTGGTGCTCA AGGAGTTGGG TATTAAGTC<sup>T</sup> GAAAAGTACA TTGCCCTCCGA  
2101 AGTCTGTGCA GAGTCCATCG CTGTGGGAAC TGTTAAGCAT GAAGGCCAGA  
2151 TCAAATATGT CAATGACGTC CGGAAAATCA CCAAGAAAAA TATTGAAGAG  
2201 TGGGGCCCGT TCGACTTGGT GATTGGTGGA AGCCCATGCA ATGATCTCTC

FIG. 1B-2



2251 TAACGTCAAT CCTGCCCGCA AAGGTTATA TGAGGGCACA GGAAGGCTCT  
2301 TCTTCGAGTT TTACCACTTG CTGAATTATA CCCGCCCCAA GGAGGGCGAC  
2351 AACCGTCCAT TCTTCTGGAT GTTCGAGAAT GTTGTGGCCA TGAAACTGAA  
2401 TGACAAGAAA GACATCTCAA GATTCTGGC ATGTAACCCA GTGATGATCG  
2451 ATGCCATCAA GGTGTCTGCT GCTCACAGGG CCCGGTACTT CTGGGTAAC  
2501 CTACCCGGAA TGAACAGGCC CGTGATGGCT TCAAAGAATG ATAAGCTCGA  
2551 GCTGCAGGAC TGCCTGGAGT TCAGTAGGAC AGCAAAGTT AAGAAAGTGC  
2601 AGACAATAAC CACCAAGTCG AACTCCATCA GACAGGGCAA AAACCAGCTT  
2651 TTCCCTGTAG TCATGAATGG CAAGGACGAC GTTTGTGGT GCACTGAGCT  
2701 CGAAAGGATC TTGGCTTCC CTGCTCACTA CACGGACGTG TCCAACATGG  
2751 GCCGCGGGCGC CCGTCAGAAG CTGCTGGCA GGTCTGGAG TGTACCGGTC  
2801 ATCAGACACC TGTTGCCCTT CTTGAAGGAC TACTTGCT GTGAATAGTT  
2851 CTACCCAGGA CTGGGGAGCT CTGGTCAGA GCCAGTGGCC AGAGTCACCC  
2901 CTCCCTGAAG GCACCTCACC TGTCCCCTT TTAGCTCACC TGTGTGGGGC  
2951 CTCACATCAC TGTACCTCAG CTTCTCCTG CTCAGTGGGA GCAGAGCCTC  
3001 CTGGCCCTTG CAGGGGAGCC CCGGTGCTCC CTCCGTGTGC ACAGCTCAGA  
3051 CCTGGCTGCT TAGAGTAGCC CGGCATGGTG CTCATGTTCT CTTACCCCTGA  
3101 AACTTTAAAA CTTGAAGTAG GTAGTAAGAT GGCTTCTTT TACCCCTCCTG  
3151 AGTTTATCAC TCAGAAGTGA TGGCTAAGAT ACCAAAAAAA CAAACAAAAA  
3201 CAGAAACAAA AAACAAAAAA AAACCTCAAC AGCTCTTTA GTACTCAGGT  
3251 TCATGCTGCA AAATCACTTG AGATTTGTT TTTAAGTAAC CCGTGCTCA  
3301 CATTGCTGG AGGATGCTAT TGTGAATGTG GGCTCAGATG AGCAAGGTCA  
3351 AGGGGCCAAA AAAAATTCCC CCTCTCCCCC CAGGAGTATT TGAAGATGAT  
3401 GTTTATGGTT TAAGTCTTCC TGGCACCTTC CCCTTGCTTT GGTACAAGGG

FIG. 1B-3



1078 GTACGAGGAC GGCGGGGCT TTGGCATTGG GGAGCTCGTG TGGGGAAAC  
1128 TGGGGGCTT CTCCCTGGTGG CCAGGCCCCA TTGTGTCTTG GTGGATGACCG  
1178 GGCGGGAGCC GAGCAGCTGA AGGCACCCGC TGGTCATGT CGTTGGAGA  
1228 CGGCAAATTTC TCAGTGGTGT GTGTTGAGAA GCTGATGCCG CTGAGCTCGT  
1278 TTTGCAGTGC GTTCCACCAAG GCCACGTACA ACAAGCAGCC CATGTACCGC  
1328 AAAGCCATCT ACGAGGTCT GCAGGTGGCC AGCAGCCGGG CGGGGAAGCT  
1378 GTTCCCGGTG TGCCACGACA GCGATGAGAG TGACACTGCC AAGGCCGTCC  
1428 AGGTGCAGAA CAAGCCCAGT ATTGAATGGG CCCTGGGGGG CTTC~~AGCCT~~  
1478 TCTGGCCCTA AGGGCCTGGA GCCACCAGAA GAAGAGAAGA ATCCCTACAA  
1528 AGAAGTGTAC ACGGACATGT GGGTGGAACCC TGAGCCAGCT GCCTACCCAC  
1578 CACCTCCACC AGCCAAAAAG CCCCAGAAGA GCACAGCGGA GAAGCCCAAG  
1628 GTCAAGGAGA TTATTGATGA CGGCACAAGA GACCGG~~T~~TGG TGTACGAGGT  
1678 CGGGCAGAAG TCCCGGAACA TTGAGGACAT CTGCATCTCC TGTGGAGCC  
1728 TCAATGTTAC CCTGGAACAC CCCCTTTGCG TTGGAGGAAT GTGCCAAAC  
1778 TGCAAGAACT GCTTCTGGA GTGTGGTAC CACTACGACG ACGACGGCTA  
1828 CCAGTCCTAC TGCACCATCT GCTGTGGGG CGTGAGGTG CTCATGTGCC  
1878 GAAACAACAA CTGCTGCAGG TGCTTTGCG TGGAGTGTGT GGACCTCTTG  
1928 GTGGGGCCGG GGGCTGCCCA GCGAGCCATT AAGGAA~~ACC~~ CCTGGAACTG  
1978 CTACATGTGC GGGCACAAGG GTACCTACGG GCTGCTGGG CGGGAGAGG  
2028 ACTGGCCCTC CGGGCTCCAG ATGTTCTTCG CTAATAACCA C~~A~~CCAG~~AA~~  
2078 TTTGACCCCTC CAAAGGTTA CCCACCTGTC CCAGCT~~AGA~~ AGAGGAAGCC  
2128 CATCCGGGTG CTGTCTCTCT TTGATGGAAT CGCTACAGGG CTCCCTGGTGC  
2178 TGAAGGACTT GGGCATTCAAG GTGGACCGCT ACATTGCCTC GGAGGTGTGT

FIG. 1C-2



leukemia  
promyelocytic leukemia HL-60  
Hela cell S3  
chronic myelogenous leukemia K-562  
lymphoblastic leukemia MOLT-4  
Burkitt's lymphoma Raji  
colorectal adenocarcinoma SW480  
lung carcinoma A549  
melanoma G361

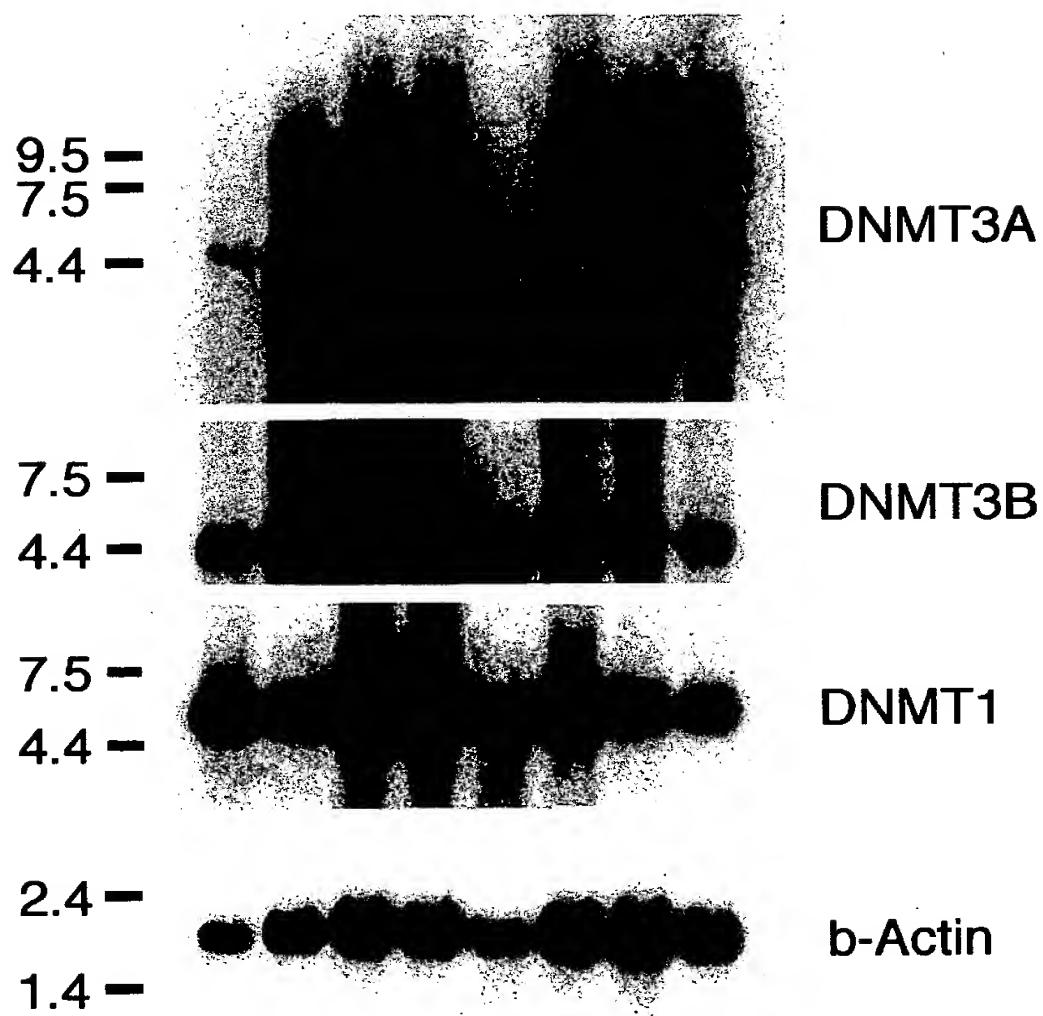


FIG. 10